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4.2.2 **Kernel** Objects All low-level **API** calls are operations on a few types ...

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... significant complexity and typically have a wide **API**, violating the ... Denali **virtual machine interface** ... l,guet,, l "" i-,-u-;i:: L2L_ Denali isolation **kernel** ...

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... **virtual machine interface** ... older, more stable code [6]. We believe than an isolation **kernel** must be ... as a thin software layer that exposes a narrow **API** and runs ...

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... Thus, a complete **virtual machine interface** is maintained at each level ... We have defined the detailed Fluke **API** [6], the "Flexible/**kernel** Environment." A ...

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... the vOS provides a unified **virtual machine interface** for the ... migration, either change the **kernel**, or application ... by using the Win32 **API** interception mechanism. ...

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A Whitaker, RS Cox, M Shaw, SD Gribble - unix.org
... software services that manipulate the **virtual machine interface** without worrying ... only show a portion of the full **API**. ... buffers inside the μ Denali **kernel** itself ...

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P Barham, B Dragovic, K Fraser, S Hand, T ... - Proceedings of the nineteenth ACM symposium on ..., 2003 - portal.acm.org

... transla- tion is applied to the entire guest OS **kernel** (with associated ... 2.1 The **Virtual Machine Interface** Table 1 presents an overview of the paravirtualized ...

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Z Amsden, D Arai, D Hecht, A Holler, P ... - Ottawa Linux Symposium, 2006 - Citeseer

... the cost of handling multiple **kernels**, so the **API** takes into ... the need for allowing the same paravir- tualized **kernel** to run on ... 3 The **Virtual Machine Interface** ...

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J LeVasseur, V Uhlig, M Chapman, P Chubb, B ..., 2006 - Citeseer

... Xen/x86 hypervisor back-end: The x86 Xen **API** re- sembles the hardware **API**, even using the hardware ired instruction to transition from **kernel** to user. ...

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P Dasgupta, V Karamcheti, Z Kedem - International Conference on Parallel and Distributed ..., 1999 - Citeseer

... the following major func- tions: • It creates a "unified" **virtual machine interface** for application ... system call **API** interception layer ... VOS **kernel** ...

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... with pure virtu- alization (the faithful emulation of the platform **API**): sta- ble and well-defined platform interfaces, single binaries for **kernel** and device ...

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... Host NIC User-level Program **Kernel** PANIC Virtual Machine ... 3.3 Host-PANIC **Virtual Machine Interface** ... Payload Size μ - s e c mcp2mcp get/deliver **api** app2app ...

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ST King, GW Dunlap, PM Chen - eecs.umich.edu

... both approaches is that the act of intro- specting may perturb the state of the system (eg, it may cause the guest **kernel** to crash). **Virtual Machine Interface** ...

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[Supporting Internet-scale multi-agent systems- *psu.edu \[PDF\]](#)

NJE Wijngaards, BJ Overeinder, M Van Steen ... - Data & Knowledge Engineering, 2002 - Elsevier

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Heterogeneous parallel and distributed computing

VS Sunderam, GA Geist - Parallel Computing, 1999 - Elsevier

... While MPI-1 defined a message passing **API**, it was not portable across heterogeneous clusters of computers because MPI-1 defined no standard way to start ...

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J Lo - World Wide Web electronic publication, 2005 - railscloud.org

... proposal: **Virtual machine Interface API** VMI provides maintainability & stability
API supports low-level and higher-level interfaces Allows same **kernel** to run ...

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[PDF] *VMI: An efficient messaging library for heterogeneous cluster communication

A Pant, S Krishnamurthy, R Pennington, M ... , 2000 - bioinformatics.org

... 2. **Virtual Machine Interface** ... multiple underlying communication protocols while providing a uniform **API**. ... the sockets device requires a **kernel** level transition ...

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... does not have high-level interface **API** for the ... not improve other benchmarks, such as **kernel** build. ... References [1] **Virtual machine interface** (vmi) specifications ...

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G Ammons, J Appavoo, M Butrico, D Da Silva ... - Proceedings of the 3rd international conference on ..., 2007 - portal.acm.org

... operating system into two parts: a small, trusted **kernel** (called the ... **API** should include a subset of the libc **API** to enable easier ... Xen **virtual machine interface** ...

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Lightweight firm real-time extensions for low memory profile Java systems- [tu-bs.de](#) [PDF]

H Bohme, U Golze - Lecture Notes in Computer Science, 2004 - Springer

... approach mainly using an additional **API** with **virtual machine interface**. ... in section 2 our real-time **kernel** to give ... present our minimized real-time **API** using a ...

[Cited by 2](#) - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)

Fast networking with socket-outsourcing in hosted virtual machine environments

H Eiraku, Y Shinjo, C Pu, Y Koh, K Kato - Proceedings of the 2009 ACM symposium on Applied ..., 2009 - portal.acm.org

... calls to the host OS through a standard **API**. In Figure 1(c), the host module runs in a user-level process. We can also execute the host module in the **kernel**. ...

[Cited by 1](#) - [Related articles](#)

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D Marinescu, R Kröger - Distributed Systems Lab, Wiesbaden University of ..., 2007 - Citeseer

... binary translation of privileged code (**kernel** code) which ... is referred to as the **virtual machine interface** and consists ... finished its 1.0 version of the Xen-**API** ...

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The Case for Isolation **Kernels**- [*usenix.org](#) (PDF)

IKD Principles - [usenix.org](#)

... significant complexity and typically have a wide **API**, violating the ... Denali **virtual machine interface** ... Denali architecture: the Denali isolation **kernel** is a ...

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Virtual machine interface for hardware reconfigurable and software programmable ...

S Chen, KM Hesky, RR Joag, JD Medlock, ... - US Patent App. 11/841,848, 2007 - Google Patents

... present invention provides a **virtual machine interface** (VMI) and ... application programming interface (**API**) usable in ... comprises a plurality of hardware **kernels**. ...

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[PDF] [*Multiprocessor Scheduling](#)

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... Para-virtualization – VM does not simulate hardware – Use special **API** that a ... **Virtual machine Interface** ... Standardize the VM interface so **kernel** can run ...

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Kernel Stack Overflows Elimination

Y Wiseman, J Isaacson, E Lubovsky, P ... - Advanced Operating Systems and **Kernel** Applications ..., 2009 - books.google.com

... The **virtual machine interface** also benefits the virtual memory mechanism, whereas the ... Fuchs and Pemmasani, 2005) to implement Windows **kernel API** and NDIS ...

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... the system input or from other **kernels**, processes it, and passes the modified data to still other **kernels** or to ... Application makes **API** call to make suggestions. ...

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... machine monitors, each of which exports a **virtual machine interface** compatible with ... demonstrates the importance of the low-level **kernel API** directly supporting ...

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System for and method of improving discrete event simulation using virtual machines

R Barr, ZJ Haas, R Vanrenesse - US Patent App. 11/116,733, 2005 - Google Patents
... [0005] Simulation systems researchers have built many types of conservatively parallel and aggressively optimistic **kernels** and libraries, while the languages ...

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Method of providing storage to virtual computer cluster within shared computing ...

M Kallahalla, M Uysal, R Swaminathan - US Patent App. 10/959,851, 2004 - Google Patents
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... then be mod- ified to run on the **virtual machine interface**. ... The KVM-supported **kernel** includes a character de ... is virtualization at the graphics **API** level, not ...

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[PS] *The Fluke Security Project

J Lepreau, 2000 - cs.utah.edu
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Improving Virtualized Windows Network Performance by Delegating Network Processing

Y Koh, C Pu, Y Shinjo, H Eiraku, G Saito, D ... - Proceedings of the 2009 Eighth IEEE International ..., 2009 - doi.ieeecomputersociety.org
... processing in the host **kernel** is naturally ... implementation of remote Linsock **API** invocation with ... VMware **Virtual Machine Interface** (VMI) provides paravirtual I/O ...

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P Reames, E Chan, F David, J Carlyle, R ... - Illinois Journal of Undergraduate Research, 2007 - Citeseer
... to enforce a restricted platform **API** for paravirtualization ... rather than duplicating existing **kernel** functionality ... 15] and the **Virtual Machine Interface** (VMI) [16 ...

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*vBlades: Optimized paravirtualization for the Itanium processor family

DJ Magenheimer, TW Christian - unix.org
... Some VMMs intentionally compromise the **virtual machine interface** in exchange for greater performance. ... Other VMMs provide an explicit **API** and allow or require a ...

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Y Chen, P England, M Peinado, B Willman - Microsoft re-Research Technical Report MSR-TR-2003- ..., 2003 - Citeseer

... this mapping is to allow each **virtual machine interface** to expose ... is statically linked into the Windows XP **kernel**. ... first program uses the Win32 GDI **API** to draw ...

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SNT Chiueh - Citeseer

... altogether using the same set of **API** and still ... The paravirtualization exports a new **virtual machine interface** that aims at ... only one of the two **kernels** has the ...

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MS Lin, Y Hsu - dspace.lib.fcu.edu.tw

... A. MPICH-VMI **Virtual Machine Interface** [14](VMI) is a set of ... is based on vendor MPI and includes **API** library and ... There is a IP tunneling module in Linux **kernel**. ...

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[PDF] [Virtualising Darwin on L4](#)

J Root - disy.cse.unsw.edu.au

... systems must be ported to run on the **virtual machine interface**. ... to hypercalls, that is, hypervisor **API** calls, in order for guest **kernels** to operate correctly ...

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[PDF] [Design and Evaluation of Self-Management Approaches for Virtual Machine-Based ...](#)

F Wiesbaden - Citeseer

... 84 5.4 Using the Xen **API** to access the Xen hypervisor is referred to as the **virtual machine interface** (VMI). ... to the **kernel**. ...

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... The ICM is a C **API** used to create the platform ... 3.2.2 **Virtual Machine Interface** (VMI) ... the processor model to communicate with the simulation **kernel** and the ...

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... The management **API** 314 provides the management ... including an operating system **kernel** 608 will ... The **virtual machine interface** 605 precludes direct access by the ...

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C Wolf - depth research overview, Burton Group, 2007 - [hosteddocs.ittoolbox.com](#)

... application programming interfaces (**APIs**) must reside ... guest operating system **kernel**, operating system ... of the open **Virtual Machine Interface** (VMI) specification ...

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[\[PDF\] *VMI 2.0: A dynamically reconfigurable messaging layer for availability, usability, and ...](#)

S Pakin, A Pant - The 8th International Symposium on High Performance ..., 2002 - [Citeseer](#)

... the second version of the **Virtual Machine Interface** communication middleware ... which implements a simple **API** (send, receive ... the Windows NT **kernel** architecture [12 ...

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... McRT supports a pthreads, OpenMP and Java **virtual machine interface**. ... The OpenMP adaptor implements the runtime **API** used by ... org) and a set of RMS **kernels** [41][52 ...

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... some applications to the Snowflake **API** and specifications ... facilitated by a **virtual machine interface** in which each ... with some of the **kernels** mentioned previously ...

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... Linux **kernel** is to provide a **virtual machine interface** to user ... handled in Linux through a common **API** known as ... Prior **kernels** had a jumble of incompatible add-on ...

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S Harding - IEEE World Congress on Computational Intelligence, ..., 2008 - [gpgpgpu.com](#)

... is typically done through a **virtual machine interface** such as ... The **API** also provides reduction operators, such as ... is defined as a convolution **kernel** (or program ...

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... The MI is a **virtual machine interface** to the system, consisting of ... IBM does provide **API's** so you can implement this ... IBM ported the Linux **kernel** to the IBM i ...

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[R-Stream 3.0: Technologies for High Level Embedded Application Mapping](#)

P Mattson, R Lethin, E Schweitz, A Leung, V ..., 2004 - [Storming Media](#)

... application mapping via the Streaming **Virtual Machine interface** to low ... C + Streaming Virtual Machine **API** ... reducing memory traffic between **kernels**, unlike using ...

Flexible TDMA system architecture

R Subramanian, CC Woodthorpe, DM Holmes ... - US Patent App. 09/922,486, 2001 - Google Patents

... Receive Path 354 Modem Function 320 Demux Data Switching 329 Functional **Kernel**

Plane[i] 3301 Ftmctional-KerrfeH3larret11"33&a— 312~ Parameter ...

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JT LeVasseur, 2009 - 141.3.40.244

... machines to enhance reliability is an old tech- nique, with the improvements often attributed to smaller and simpler privileged- mode **kernels**, and isolation of ...

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Separating access control policy, enforcement, and functionality in extensible systems- [psu.edu](#) [PDF]

R Grimm, BN Bershad - ACM Transactions on Computer Systems (TOCS), 2001 - portal.acm.org

... as Unix [McKusick et al. 1996], which rely on processes executing under the control of a privileged **kernel**. As a result of this ...

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[PDF] *Raffaele Sandrini

S Peter, A Baumann, T Roscoe - networkmirror.com

... Operating system **kernels** are often called supervisor and since the virtual machine monitor resides logically below the guest operating system the term ...

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Flexible operating system operable as either native or as virtualized

DJ Magenheimer - US Patent App. 10/784,065, 2004 - Google Patents

... example, some VMMs intentionally com- promise the **virtual machine interface** in exchange ... may provide an explicit application program interface ("**API**") and allow ...

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Wireless spread spectrum communication platform using dynamically reconfigurable logic

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... the relative security of the **virtual machine interface**, VMM-based ... semantics of private Linux **kernel** data structures ... Lycosid invokes documented **APIs** to obtain ...

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R Grabner, F Mietke, W Rehm - Proceedings of Workshop on Communication Architecture ..., 2004 - chinagrid.edu.cn
... This **API** is utilized within the MPICH2 Device for InfiniBand ... Because of the behaviour of the un-/registration process, a **kernel** involvement is necessary, which ...
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... 10], Sun's MPI [12], and the **Virtual Machine Interface** (VMI) 2.0 ... closely to the MPI-provided point-to-point **API**. ... module queries the list of **kernel** inter- faces ...
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... Mr. Judd was one of the original developers of the VSIPL **API** and participated in the development of the ... o Allocate memory for **kernels** and streams to execute ...
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... is typically done through a **virtual machine interface** such as ... evolutionary algorithm and the underlying **API**, drivers and ... will allow for multiple **kernels** to be ...
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I Mevag - Master's thesis, University of Oslo, Oslo University ..., 2007 - Citeseer
... This application, and the Xen-**API** it communicates with, was at ... The VMM builder defines the **virtual machine interface** by replacing nonvirtualizable instructions ...
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... Of the Comandos **Virtual Machine Interface** (VMI). ... to interface to a LSRT rather than to provide an **API** for application ... The GRT is supported by the **kernel**. ...
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K Govil, 2000 - Citeseer
... containment, interaction with the virtual machine **kernel**, and realistic evaluation of the mechanisms and policies. ... There is a rich **API** ...
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... No **kernel** support becomes necessary. ... This section provides an short overview about the InfiniBand architecture, communication stack and verbs **API**. ...

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... Window NT4.0. The HAL exports a **virtual machine interface** which is used by the **kernel**, the executive ... operating environment and exports the Win32 **API** to user ...

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